

ÖLFLEX® 490 P/490 CP

Highly abrasion-resistant control cable with PUR jacket & UL/CSA AWM



ÖLFLEX® 490 P is a flexible control cable with a rugged, highly abrasion-resistant polyurethane jacket. It is UV-resistant and performs very well in mineral oils, cutting oils, and areas with high mechanical abuse. ÖLFLEX® 490 CP is the shielded version, with an overall foil tape with drain wire and tinned copper braid for EMI and RFI protection.

Recommended applications

Machine tool equipment; handheld controls; any areas where the cable can be cut and damaged by sharp objects

Approvals



Cable attributes		page 648	
OIL	OR-05	FLAME	FR-02
MOTION	FL-01	MECH.	MP-06

Unshielded construction

- Conductors: finely stranded bare copper
- Insulation: specially formulated PVC
- Jacket: specially formulated polyurethane; gray

Shielded construction

- Conductors: finely stranded bare copper
- Insulation: specially formulated PVC
- Shielding: overall foil tape wrap with drain wire; tinned copper braid (85% coverage)
- Jacket: specially formulated polyurethane; gray

Application advantage

- Rugged PUR jacket to resist cuts, nicks, and abrasion
- UL & CSA AWM approved
- Extremely oil and chemical resistant
- Able to be dragged on the floor with minimal damage
- Number-coded for easy wiring

Complete the installation	
SKINTOP® strain relief page 492	EPIC® connectors page 284

Technical data

Minimum bend radius: - for installation: 4 x cable diameter - shielded: 6 x cable diameter	Color code: black with white numbers, plus green/yellow ground
Temperature range: - for flexible use: -10°C to +80°C - for stationary use: -20°C to +80°C	Approvals: UL: AWM 20234 Attributes: UL Oil Res I/II sunlight resistant NFPA 79 Canada: CSA AWM I/II A/B FT 1 Additional: CE & RoHS
Nominal voltage: 600V	
Test voltage: 2000V	
Conductor stranding: Class 5 fine wire* * 18 AWG meets only Class 5 cross section and DC resistance	

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

ÖLFLEX® 490 P

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
		in	mm			
20 AWG (0.5 mm²)						
402002	2	0.245	6.2	7	35	S1107
402003	3	0.256	6.5	10	40	S1109
402004	4	0.274	7.0	13	46	S1109
402005	5	0.293	7.4	17	53	S1111
402007	7	0.313	8.0	23	66	S1111
402009	9	0.355	9.0	30	82	S1111
402012	12	0.401	10.2	38	106	S1113
402018	18	0.459	11.7	59	139	S1113
402025	25	0.534	13.6	79	176	S1121
18 AWG (1 mm²)						
401802	2	0.269	6.8	13	44	S1109
401803	3	0.281	7.1	20	51	S1111
401804	4	0.303	7.7	26	64	S1111
401805	5	0.325	8.3	31	75	S1111
401807	7	0.349	8.9	46	93	S1111
401809	9	0.399	10.1	59	119	S1113
401812	12	0.451	11.5	79	143	S1113
401818	18	0.519	13.2	118	203	S1116
401825	25	0.607	15.4	164	264	S1121

* 2c cable does not include ground

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
		in	mm			
16 AWG (1.5 mm²)						
401602	2	0.295	7.5	20	53	S1111
401603	3	0.310	7.9	29	64	S1111
401604	4	0.333	8.5	39	77	S1111
401605	5	0.360	9.1	48	90	S1111
401607	7	0.388	9.9	68	115	S1113
401609	9	0.446	11.3	88	141	S1113
401612	12	0.496	12.6	117	179	S1116
401618	18	0.574	14.6	175	253	S1121
401625	25	0.654	16.6	242	335	S1121
14 AWG (2.5 mm²)						
401402	2	0.329	8.4	33	66	S1111
401403	3	0.347	8.8	49	75	S1111
401404	4	0.374	9.5	65	108	S1111
401405	5	0.406	10.3	81	121	S1113
401407	7	0.439	11.2	113	170	S1113
401409	9	0.507	12.9	146	194	S1116
401412	12	0.567	14.4	194	238	S1121
401418	18	0.659	16.7	290	357	S1121
401425	25	0.754	19.2	404	474	S1129

ÖLFLEX® 490 CP

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
		in	mm			
20 AWG (0.5 mm²)						
402002CP	2	0.270	6.9	19	46	53112210
402003CP	3	0.281	7.1	24	55	53112220
402004CP	4	0.299	7.6	27	66	53112220
402005CP	5	0.318	8.1	33	73	53112220
402007CP	7	0.338	8.6	40	84	53112220
402009CP	9	0.380	9.7	53	104	53112230
402012CP	12	0.426	10.8	69	117	53112230
402018CP	18	0.490	12.4	90	163	53112240
402025CP	25	0.565	14.4	119	214	53112250
18 AWG (1 mm²)						
401802CP	2	0.294	7.5	28	62	53112220
401803CP	3	0.306	7.8	35	71	53112220
401804CP	4	0.328	8.3	44	82	53112220
401805CP	5	0.350	8.9	51	95	53112220
401807CP	7	0.374	9.5	70	117	53112230
401809CP	9	0.424	10.8	89	139	53112230
401812CP	12	0.473	12.0	110	176	53112240
401818CP	18	0.540	13.7	155	240	53112250
401825CP	25	0.609	15.5	218	311	53112250

* 2c cable does not include ground

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
		in	mm			
16 AWG (1.5 mm²)						
401602CP	2	0.320	8.1	43	73	53112220
401603CP	3	0.335	8.5	50	82	53112220
401604CP	4	0.358	9.1	60	97	53112220
401605CP	5	0.385	9.8	76	112	53112230
401607CP	7	0.413	10.5	98	137	53112230
401609CP	9	0.477	12.1	122	170	53112240
401612CP	12	0.527	13.4	156	216	53112240
401618CP	18	0.605	15.4	231	295	53112250
401625CP	25	0.685	17.4	307	384	53112260
14 AWG (2.5 mm²)						
401402CP	2	0.354	9.0	56	84	53112220
401403CP	3	0.372	9.4	76	101	53112230
401404CP	4	0.399	10.1	96	123	53112230
401405CP	5	0.431	10.9	116	145	53112230
401407CP	7	0.470	11.9	149	183	53112240
401409CP	9	0.538	13.7	188	225	53112250
401412CP	12	0.598	15.2	242	287	53112250
401418CP	18	0.690	17.5	359	390	53112260
401425CP	25	0.785	19.9	479	558	53112260

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section. If not otherwise specified, all values relating to the product are nominal values.